

IN THE DRAWINGS

The attached sheets of drawings include changes to Figs. 3, 4, 12, and 13. These sheets, which include Figs. 3, 4, 12, and 13, replace the original sheets including Figs. 3, 4, 12, and 13.

Attachment: Replacement Sheets (3)

REMARKS/ARGUMENTS

Favorable reconsideration of this application, as presently amended and in light of the following discussion, is respectfully requested.

Claims 1, 4-7, 9-12, 14-16, 18, and 20 are currently pending in the present application; Claims 1, 4, 5, 7, 9, 11, 12, 15, 16, 18, and 20 are amended; and Claims 2, 3, 8, 13, 17, and 19 are canceled. Support for the amendments is found at least in the originally filed specification at page 8, line 6 to page 9, line 28 and page 11, line 36 to page 12, line 9 and originally filed Claims 2 and 3. Thus, no new matter is added.

In the outstanding Office Action, the drawings were objected to for having identifiers 19 and 21 both designate one element and for having identifiers 34 and 31 both designate one element; the drawings were objected to for having identifier 35 used to designate both demodulator and modulator and identifier 36 for being used to designate both modulator and demodulator; the drawings were objected to for having incorrect labels with respect to identifiers 24 and 32; the specification was objected to for informalities; Claims 1, 2, 7, and 12 were objected to for informalities; Claims 1, 3, 6, 12, 13, and 16-20 were rejected under 35 U.S.C. § 102(e) as anticipated by Kim (U.S. Patent No. 6,873,853); Claims 2, 7, 8, and 11 were rejected under 35 U.S.C. § 103(a) as unpatentable over Kim in view of Tanaka et al. (U.S. Patent No. 6, 256,509, hereinafter "Tanaka"); Claims 4 and 14 were rejected under 35 U.S.C. § 103(a) as unpatentable over Kim in view of D'Amico et al. (U.S. Patent No. 6,741,554, hereinafter "D'Amico"); Claims 5 and 15 were rejected under 35 U.S.C. § 103(a) as unpatentable over Kim in view of D'Amico, and further in view of Tanaka; and Claims 9 and 10 were rejected under 35 U.S.C. § 103(a) as unpatentable over Kim in view of Tanaka, and further in view of D'Amico.

In response to the objection to the drawings having identifiers 19 and 21 identify the same element, and identifiers 34 and 31 identify the same element, Applicants respectfully

submit that identifier 19 identifies the communication controller in the wireless terminal, whereas identifier 34 identifies the communication controller in the base station. Identifiers 21 and 31 have the same relationship instead referring to the transmission information source. As the identifiers refer to similar components in different devices, Applicants submit that the objection is without basis. Therefore, it is respectfully requested that this objection to the drawings be withdrawn.

In response to the objection to the drawings regarding element identifiers 35 and 36, Figures 4, 12, and 15 have been amended. Accordingly, the objection is believed to have been overcome. Therefore, it is respectfully requested that this objection to the drawings be withdrawn.

In response to the objection to the drawings regarding element identifiers 24 and 32, Figures 3, 4, 12, and 15 have been amended. Accordingly, the objection is believed to have been overcome. Therefore, it is respectfully requested that this objection to the drawings be withdrawn.

In response to the objection of the specification, the specification has been amended. Accordingly, the objection is believed to have been overcome. Therefore, it is respectfully requested that the objection to the specification be withdrawn.

In response to the objection of Claims 1, 2, 7, and 12, Claims 1, 2, 7, and 12 have been amended to correct the noted informalities. Accordingly, the objection is believed to have been overcome. Therefore, it is respectfully requested that the objection to Claims 1, 2, 7, and 12 be withdrawn.

In response to the rejection of Claims 1, 3, 6, 12, 13, and 16-20 under 35 U.S.C. § 102(e) as anticipated by Kim, Applicants respectfully request reconsideration of amended Claims 1, 6, 12, 18, and 20. Amended Claim 1 recites, in part, a wireless system comprising ... an information synchronizer which synchronizes a time frame of information transmitted

via said first and second wireless channels with each other, wherein said first wireless channels transmit by encoding information, and said second wireless channel transmits key information which encrypts information transmitted via said first wireless channel.

Independent Claims 7, 12, 16, 18, and 20 recite this feature, also.

The present invention has characteristics in which the information transmitted by using the simplex first wireless channel is synchronized with the information transmitted by using the bidirectional second wireless channel, and the key information for encrypting the information transmitted via the first wireless channel is transmitted by the second wireless channel.¹

According to configurations of the present invention, it is possible to receive the key information for encrypting the encrypted information transmitted by the simplex first wireless channels with the encrypted information, and to encrypt the encrypted information by using the key information in real time.²

On the other hand, Kim describes CTBCH, which is a uni-direction downlink channel used for carrying the broadcast traffic, and a SSCH, which is a bi-directional channel carrying the control signals.³ However, Kim neither discloses nor suggests that the information on the CTBCH is synchronized with the information on SSCH. Furthermore, Kim neither discloses nor suggests that the key information for encrypting the information transmitted by the CTBCH is transmitted by SSCH. In other words, Kim does not describe an information synthesizer which synchronizes a time frame of information transmitted via said first and second wireless channels with each other, wherein said first wireless channels transmit by encoding information, and said second wireless channel transmits key information which encrypts information transmitted via said first wireless channel, as recited in amended Claims 1, 12, 16, 18, and 20.

¹ Specification, page 8, line 6 to page 9, line 28 and page 11, line 36 to page 12, line 9.

² Specification, page 11, line 36 to page 12, line 9.

³ Kim, col. 5, lines 7-21.

Accordingly, Applicants respectfully submit that independent Claims 1, 12, 16, 18, and 20, and claims dependent therefrom are allowable. Therefore, it is respectfully requested that the rejection of Claims 1, 3, 6, 12, 13, and 16-20 under 35 U.S.C. § 102(e) as anticipated by Kim be withdrawn.

In response to the rejection of Claims 2, 7, 8, and 11 under 35 U.S.C. § 103(a) as unpatentable over Kim in view of Tanaka, Applicants respectfully traverse this rejection. As discussed above, amended Claim 1 is believed to be allowable. Further, it is respectfully submitted that Tanaka does not supply the claimed features identified as deficient in Kim.

Rather, Tanaka describes a technique in which the base station is synchronized with the mobile station receiving the broadcast frames.⁴ Tanaka neither discloses or suggests that the bidirectional information is synchronized with the simplex information and that the encrypted information is synchronized with the key information for encrypting the information as recited in amended Claims 1, 12, 16, 18, and 20.

It is therefore respectfully requested that the rejection of Claims 2, 7, 8, and 11 under 35 U.S.C. § 103(a) over Kim in view of Tanaka be withdrawn.

In response to the rejection of Claims 4 and 14 under 35 U.S.C. § 103(a) as unpatentable over Kim in view of D'Amico, Applicants respectfully traverse this rejection. As discussed above, amended Claim 1 is believed to be allowable. Further, it is respectfully submitted that D'Amico does not supply the claimed features identified as deficient in Kim.

Furthermore as neither Kim nor Tanaka, alone or in combination, describe every feature of amended Claims 1, 12, 16, 18, 20, and claims dependent therefrom, Applicants respectfully request that the rejection of Claims 2, 7, 8, and 11 under 35 U.S.C. § 103(a) over Kim in view of Tanaka be withdrawn.

⁴ Tanaka, Col. 7, lines 1-4

In response to the rejection of claims 4 and 14 under 35 U.S.C. § 103(a) as unpatentable over Kim in view of D'Amico, Applicants respectfully traverse this rejection. It is respectfully submitted that D'Amico does not supply the claimed features identified as deficient in Kim. Therefore, as discussed above, amended Claims 1 and 12 are believed to be allowable thereby causing respective dependent Claims 4 and 14 to be allowable.

Accordingly, it is therefore respectfully requested that the rejection of Claims 4 and 14 under 35 U.S.C. § 103(a) over Kim in view of D'Amico be withdrawn.

In response to the rejection of Claims 5, 9, 10, and 15 under 35 U.S.C. § 103(a) as unpatentable over Kim in view of Tanaka and D'Amico, Applicants respectfully traverse these rejections. As discussed above, neither D'Amico nor Tanaka supply the claim features identified as deficient in Kim. Claims 5, 9, 10, and 15 depend from Claims discussed above which have been identified as allowable.

Accordingly, it is therefore respectfully requested that the rejection of Claims 5, 9, 10, and 15 under 35 U.S.C. § 103(a) over Kim in view of D'Amico and Tanaka be withdrawn.

Consequently, in view of the foregoing discussion and present amendment, it is respectfully submitted that this application is in condition for allowance. An early and favorable action is therefore respectfully requested.

Respectfully submitted,

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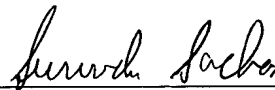
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